

# INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/FR2004/050335

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01L21/60 G03F7/00 H01L21/68

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L G03F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2001/002044 A1 (BALL MICHAEL B ET AL) 31 May 2001 (2001-05-31) paragraphs '0035!', '0036!', '0041!; figures 4B,6	1, 17
A	----- SOURIAU J-C ET AL: "Electrical conductive film for Flip-Chip interconnection based on z-axis conductors" 2002, 2002 PROCEEDINGS 52ND. ELECTRONIC COMPONENTS AND TECHNOLOGY CONFERENCE. ECTC 2002. SAN DIEGO, CA, MAY 28 - 31, 2002, PROCEEDINGS OF THE ELECTRONIC COMPONENTS AND TECHNOLOGY CONFERENCE, NEW YORK, NY: IEEE, US, VOL. CONF. 52, PAGE(S) 1151-1153 , XP002244362 ISBN: 0-7803-7430-4 the whole document ----- -/--	1, 6, 17

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

30 May 2005

Date of mailing of the international search report

08/06/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Ahlstedt, M



# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/FR2004/050335

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 135 606 A (KATO TOMOAKI ET AL) 4 August 1992 (1992-08-04) column 33, line 1 - line 59; figures 31A,31B,31C; table 3 column 7, line 47 - line 51; figures 3A-3F column 38, line 34 - line 42; figure 35B -----	1-3,6, 9-11,16
A	EP 1 270 694 A (NITTO DENKO CORP) 2 January 2003 (2003-01-02) paragraphs '0005!', '0006!', '0012!', '0045!' - '0048!; figure 1 -----	1,17
A	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 07, 31 March 1999 (1999-03-31) - & JP 07 320543 A (WHITAKER CORP:THE), 8 December 1995 (1995-12-08) abstract; figure 4 -----	1-4
A	WO 02/093991 A (DELAMARCHE EMMANUEL ;GEISSLER MATTHIAS (CH); MICHEL BRUNO (CH); SC) 21 November 2002 (2002-11-21) page 2, line 18 - page 3, line 20 -----	7
A	US 6 453 553 B1 (MASSIT CLAUDE ET AL) 24 September 2002 (2002-09-24) column 6, line 38 - line 53; figure 6A -----	1-3
A	US 6 228 689 B1 (LIU HERMEN) 8 May 2001 (2001-05-08) figures 3A-3G -----	1-3



# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/FR2004/050335

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2001002044 A1	31-05-2001	NONE	
US 5135606 A	04-08-1992	JP 3283373 A	13-12-1991
		JP 2808164 B2	08-10-1998
		JP 3283374 A	13-12-1991
		JP 2796872 B2	10-09-1998
		JP 3283375 A	13-12-1991
		JP 3000225 B2	17-01-2000
		JP 3283377 A	13-12-1991
		JP 2961221 B2	12-10-1999
		JP 3283378 A	13-12-1991
		JP 2995490 B2	27-12-1999
		JP 4101371 A	02-04-1992
		JP 2573072 B2	16-01-1997
		JP 3182080 A	08-08-1991
		JP 2573073 B2	16-01-1997
		JP 3182083 A	08-08-1991
		JP 3194867 A	26-08-1991
EP 1270694 A	02-01-2003	EP 1270694 A1	02-01-2003
		US 6890617 B1	10-05-2005
		WO 0151580 A1	19-07-2001
		US 2005074578 A1	07-04-2005
JP 07320543 A	08-12-1995	NONE	
WO 02093991 A	21-11-2002	WO 02093991 A1	21-11-2002
		JP 2004527133 T	02-09-2004
		TW 546670 B	11-08-2003
US 6453553 B1	24-09-2002	FR 2766618 A1	29-01-1999
		EP 1008176 A1	14-06-2000
		WO 9905717 A1	04-02-1999
		JP 2001511602 T	14-08-2001
US 6228689 B1	08-05-2001	NONE	